

### Abstract

The present invention provides a centrifugal fan capable of preventing turbulence of the flow in the vicinity of an inlet. A multi blade fan (110) is a fan that takes gas in from a rotational axis line (O-O) direction and blows the gas out in a direction that intersects the rotational axis line (O-O), and comprises an impeller (113) and a bell mouth (112). The impeller (113) rotates about the rotational axis line (O-O). The bell mouth (112) has an inlet (112a) arranged so that it opposes the impeller (113), and a recessed part (112d) around the inlet (112a) that forms a recessed negative pressure space ( $S_1$ ) facing the impeller (113) side, and guides the inlet gas to the impeller (113).